

Notice of Allowability

Application No.

10/651,848

Examiner

Juan A. Torres

Applicant(s)

TOUSSI ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment - After Non-Final Rejection filed on 05/17/2007.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

Drawings

The modifications to the drawings were received on 05/17/2007. These modifications are accepted by the Examiner.

In view of the amendment filed on 05/17/2007, the Examiner withdraws drawings objections of the previous Office action.

Specification

The modifications to the specification were received on 05/17/2007. These modifications are accepted by the Examiner.

In view of the amendment filed on 05/17/2007, the Examiner withdraws Specification objections of the previous Office action.

Claim Rejections - 35 USC § 101

The modifications to the claims were received on 05/17/2007. These modifications are accepted by the Examiner.

In view of the amendment filed on 05/17/2007, the Examiner withdraws claims rejections under 35 USC § 101 to claims 1-13 of the previous Office action.

Allowable Subject Matter

Claims 1-20 are allowed.

The following is an examiner's statement of reasons for allowance: claims 11-20 are allowed because the references cited fail to teach, as applicant has a method for a downlink code generator to generate generating a new initial state that is used in producing a downlink scrambling code, the method comprising selecting a first initial

state and a second initial state for the downlink code generator, providing the first initial state to an auxiliary linear feedback shift register in the downlink code generator, determining whether the downlink scrambling code of the downlink code generator is a secondary downlink scrambling code, advancing the first initial state of the downlink code generator according to a secondary index when the downlink scrambling code is a secondary downlink scrambling code, and advancing the first initial state of the downlink code generator according to a primary index such that the new initial state is produced; a method for a downlink code generator to generate a downlink scrambling code, the method comprising selecting a first initial state and a second initial state for the downlink code generator, providing the first initial state to an auxiliary linear feedback shift register in the downlink code generator, producing a new initial state for the downlink code generator by advancing the first initial state according to at least one of a primary index and a secondary index, providing the new initial state and the second initial state to a first main linear feedback shift register in the downlink code generator and a second main linear feedback shift register in the downlink code generator respectively; and producing the downlink scrambling code by combining a set of outputs corresponding to outputs of the first main linear feedback shift register in the downlink code generator and the second main linear feedback shift register in the downlink code generator; and a downlink scrambling code generator, comprising an auxiliary linear feedback shift register that is arranged to receive a first initial state, a primary-mask that is combined with an initial state of the auxiliary linear feedback shift register to produce a new initial state, a first main linear feedback shift register that is arranged to receive the new initial

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state, a second main linear feedback shift register that is arranged to receive a second initial state, a set of fixed masks that are arranged to receive outputs from the first main linear feedback shift register and the second main linear feedback shift register, a set of logic gates that are arranged to produce a set of outputs in response to the outputs from the first main linear feedback shift register and the second main linear feedback shift register and other outputs from at least one of the set of fixed masks, wherein the set of outputs are combined to produce a downlink scrambling code, as the applicant has claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

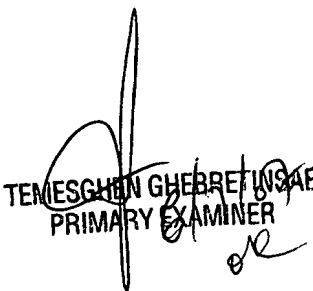
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Juan A. Torres whose telephone number is (571) 272-3119. The examiner can normally be reached on Monday-Friday 9:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad H. Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Juan Alberto Torres
05-21-2007


TEMESGHEN GHEBRETINSAE
PRIMARY EXAMINER